

CISZEWSKI, Andrzej, mgr inz.; RADOMSKI, Tadeusz, mgr inz.

Materials used in aeronautic design. Pt. 9. Techn lotn
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CISZEWSKI, A., mgr inz.; RADOMSKI, T., mgr inz.

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Columbium and molybdenum alloys. Techn lotn 19 no. 1:
2 of cover, 3 of cover, 4 of cover Ja '64.

CISZEWSKI, A., mgr inz.; RADOMSKI, T., mgr inz.

Heat-resisting cobalt-based alloys. ~~From~~ lotn 18 no.9:3 of
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CISZEWSKI, Andrzej, mgr inz.; RADOMSKI, Tadeusz, mgr inz.

Aluminum and its alloys for construction. Techn lotn
19 no. 4: 2 of cover, 3 of cover-4 of cover Ap '64.

CISZEWSKI, Andrzej, mgr inż.; RADOMSKI, Tadeusz, mgr inż.

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19 no.10/11:2, 3-4 of cover. O-N '64.

CISZEWSKI, Andrzej, mgr inz.; RADOMSKI, Tadeusz, mgr inz.

Material used in aeronautic construction. Pt. 12. Techn
lotn 20 no. 1:2 of cover, 3-4 of cover Ja '65.

CISZEWSKI, B.

21 21
 ✓ Magnetic properties of ferroalloys containing 14-16% Al under the influence of a new, simplified technology. K. Wesolowski, B. Ciszewski, and Z. Tucholski (Wojakowa Akad. Tech., Warsaw). *Biol. Wzrostowej Akad. Tech.* 7, No. 37, 38-50 (1958).—Iron contg. C 0.09, Mn 0.022, Si 0.012, P 0.018, S 0.0058%, and refined Al contg. Si 0.051 and Fe 0.35%, were used to prep. 40 samples of ferroalloys contg. 13-19% of Al. A single batch, 300 g., put in a SiC crucible and then placed in a graphite-fire-clay crucible, was melted at 0.1-1.0 mm. Hg for 10-15 min., then cooled to 600° within 30 min.; at 500° the pressure in the crucible was brought to the atm. level. Forging and rolling, most effective for 15-16% alloys, followed by heat treatment, resulted in unsatisfactory magnetic properties of the alloys; the latter (15.55-15.7% Al) heated at 900° for 1.5 hr. in purified H₂ atm., then cooled at a rate of 40-60°/hr., kept at 800° for 10 min., and cooled rapidly in cold H₂O, showed permeabilities of up to 5000, 15,000, and 23,500 gauss/oersted at magnetizing forces of 5, 20, and 100 oersteds, resp., max. permeability 37,400 gauss/oersted, coercivity 0.03 oersted, and resistivity 150 microhms cm. Production methods of Al ferroalloys currently used are reviewed.

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V Technology, structure, and some magnetic and magnetostrictive properties of iron-aluminum alloys of 12-14% Al content. Kornel Wesolowski, Bohdan Cieszkowski, and Zbigniew Tucholski. Bul. Wydziału Akad. Tech. im. Józefa Gosławskiego (Warsaw) 9, 77-101 (1960) (English summary).—Other alloys prep'd. as before (CA 53, 3003); were heated 0.5 hr. at 1000°, forged (1000-700°) to a 5-mm. sheet, rolled (1000-600°) to 0.5 mm., kept 2 hrs. in dry H at 1000°, and cooled at 100°/hr. (from 600 to 400 at 80°/hr.); the alloys had a 1-phase structure and resistivity of 150 μ ohm-cm.; at Al contents of 12.42, 12.6, 12.6, 12.8, and 13.10% max. permeability was 2600 (at magnetizing force 0.7), 10,000 (0.4), 5500 (0.8), 30,000 (0.1), and 9000 gauss/oersted (0.4 oersted), and max. magneto-mech. activity (expressed as the root of the ratio of magnetic energy transformable into mech. work to the total magnetic energy of the alloys at remanence, measured by a resonance method in an alternating field of 50 moersted was (magnetizing force given) 0.28 (3), 0.29 (4), 0.30 (3.5), 0.29 (4), and 0.23 (5 oersted), resp. Magnetostriction materials are reviewed. 23 references. A. Szafrański

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CISZEWSKI, Bogdan, doc. dr.

Influence of thermal treatment on the properties of the surface layer during machining. Przegl mech 21 no.13:406-409 10 J1 '62.

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SILA, Bronislaw; LESIAK, Tadeusz; ZACHAREWICZ, Witold; WESOŁOWSKI, Kornel;
CISZEWSKI, Bohdan; KAMIŃSKI, Lech

Studies on the utilization of o-nitroethylbenzene. III. Catalytic
synthesis of kumaron with o-ethylphenol. Przem chem 41 no.2:79-
72 F '62.

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(Ferromagnetism) (Defectoscope)

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CISZEWSKI, Bohdan; KAMINSKI, Lech

Studies on the utilization of o-nitroethylbenzene.

Pt. 3. Catalytic synthesis of kumaron from o-ethylphenol.

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Some remarks concerning the segregation of barley for brewing according to its glassiness. p. 8. Vol. 6, no. 11, Nov. 1955 Warszawa
GOSPODARKA ZABOZOWIA

SOURCE: East European Accession List (EEAL) Library of Congress
Vol. 5, no. 8, August 1956

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TITLE:

Antiferromagnetic structure of uranium diphosphide

SOURCE:

Physica status solidi, v. 15, no. 2, 1966, 515-519

TOPIC TAGS:

uranium diphosphide, antiferromagnetic structure, magnetic structure, magnetic moment, neutron diffraction

ABSTRACT:

The antiferromagnetic structure of tetragonal UP_2 below the Neel temperature (203K) is determined by neutron diffraction with polycrystalline samples. The magnetic cell is twice the length of the chemical one along the c-axis. The magnetic structure consists of ferromagnetic sheets of uranium stacked along the c-axis in a + - - + order. The magnetic moments of the uranium are parallel to the c-axis;

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their magnitude is (1.0 ± 0.1) BM. The authors are indebted to Professor V. Trzebiatowski and Professor B. Buras for their kind interest in this study. Orig. art. has: 1 table and 4 figures. [KS]
[Authors' abstract.]

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